Event Hub Coolness and You

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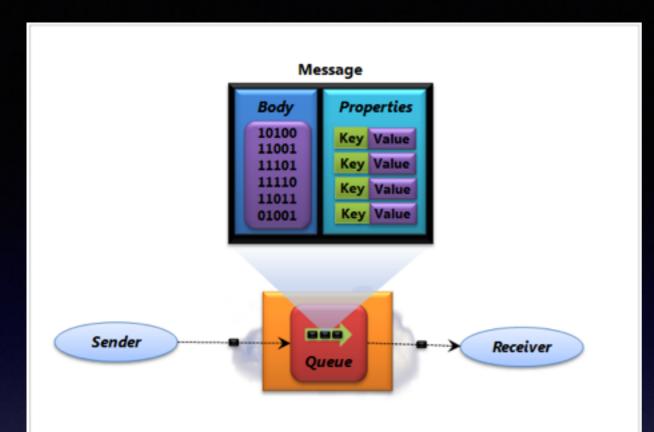
- Need to collect a ton of data
- Need to collect data from a ton of devices
- Need to collect data on my mobile app that is killin' it!
- My new IoT device has to log somewhere.
- I care about the order of things.
- Shipping logs around and merging

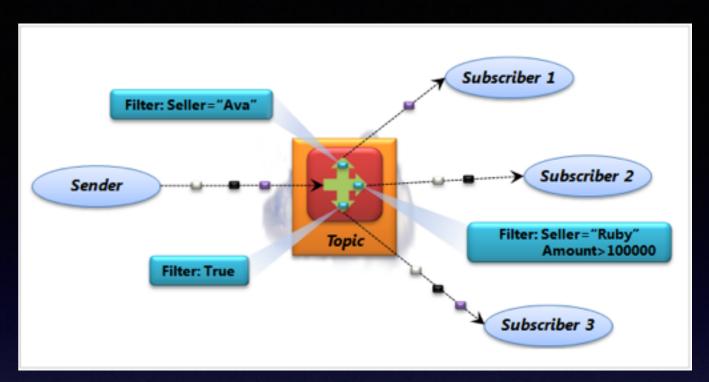


How does this fit?

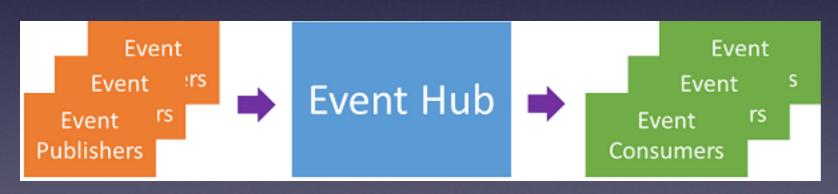
- Part of the Azure Service Bus offering.
- Designed for high speed input/ouput.
- Queues and Topics are too heavy and not really fast enough.
- Based on AMQP and open source standard

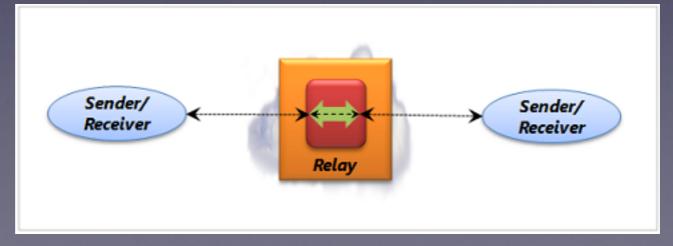






Service Bus





Open standards?

- What is AMQP
- · How long has it been around
- Who else uses this stuff?
- What platforms are supported?
- SwiftMQ, a JMS, AMQP 1.0 and AMQP 0.9.1 broker (free and commercial) and a free AMQP 1.0 client.
- Windows Azure Service Bus, Microsoft's cloud-based messaging service
- · Apache Qpid
- Apache ActiveMQ
- · Apache Apollo
- RabbitMQ
- IBM MQ Light



Cool, any limits?



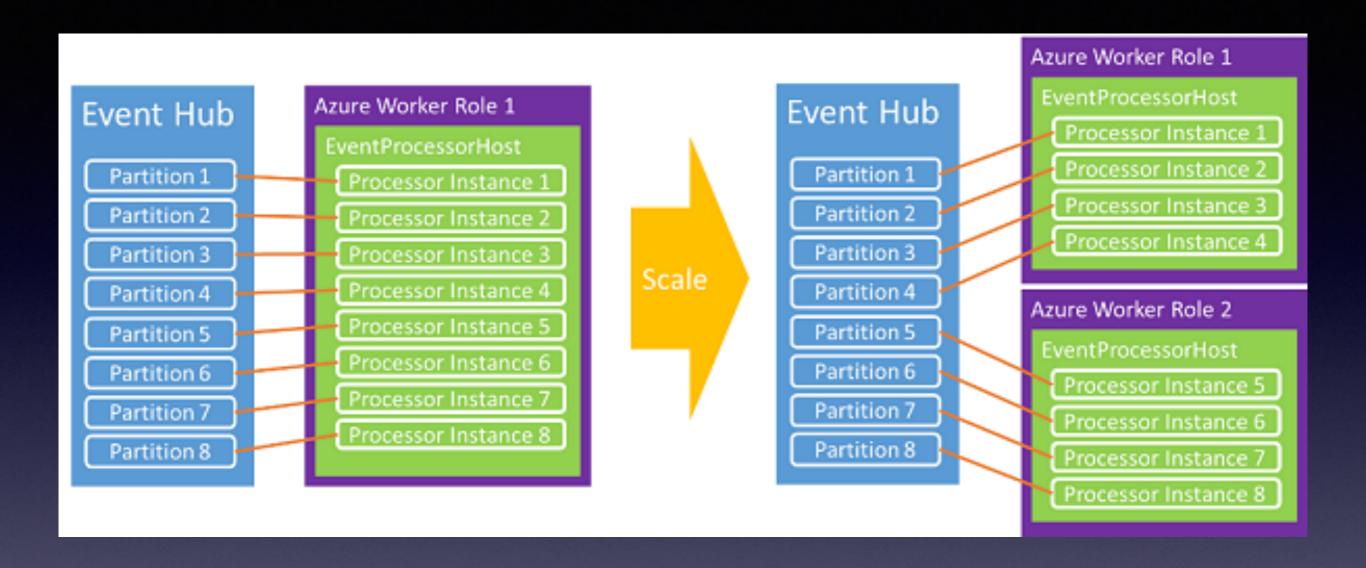
- 1 day retention
- Ingres: 1MBps or a 1000 events per second.
- Egres: 2 MBps
- Maximum size of a single event:
 256KB

Can I get more?

- Single up to 20 units
- A single partition can do 1 unit
- You should not have more units than you have partitions(consumers).

Set it on your config page.

Anything over 20 and you have to call Microsoft



What's a partition?

What's the cost?

	BASIC	STANDARD
Ingress events	\$0.028 per million events	\$0.028 per million events
Throughput unit (1 MB/s ingress, 2MB/s egress)	\$0.015/hr (~\$11/mo)	\$0.03/hr (~\$22/mo)
Publisher policies		✓
Consumer groups	1 - Default	20
Message replay	✓	✓
Maximum throughput units	20	20
Service Bus brokered connections	100 included	1,000 included
Additional Service Bus brokered connections		✓
Message Retention	1 day included	1 day included
Additional storage (up to 7 days)		✓

Monthly price estimates are based on 744 hours of usage. Event Hubs Basic includes 100 Service Bus brokered connections per Service Bus namespace and the

Hey lets //build/something!

Azure Account

Visual Studio 2013 community or better

Creating an Event Hub

- Depends on how many you want reading
- Maximum 32
- How many days to retain
- Don't user the Root, create a reader and writer
- Create a storage account for partition reader coordination. The processor needs this.

Demo Time

Links

- Sign up: http://azure.microsoft.com/en-us/services/ event-hubs/
- Overview: https://azure.microsoft.com/en-us/ documentation/articles/event-hubs-overview/
- AMQP: https://en.wikipedia.org/wiki/
 Advanced Message Queuing Protocol
- Service Bus Explorer: https://code.msdn.microsoft.com/windowsazure/Service-Bus-Explorer-f2abca5a

- Dan Rosonova: https://channel9.msdn.com/
 Shows/Azure-Friday/Azure-Service-Bus-Event-Hubs-101-with-Dan-Rosanova
- Dan Rosanova: https://channel9.msdn.com/
 Shows/Azure-Friday/Scaling-out-Azure-Service-Bus-Event-Hubs-102-with-Dan-Rosanova
- Elio Damaggio: https://azure.microsoft.com/en-in/ documentation/articles/event-hubs-csharp-ephcsgetstarted/
- My example: https://github.com/pulcher/AzurePlay